

Basic Concepts Of Industrial Hygiene

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Applications and Computational Elements of Industrial Hygiene
Toxicology Principles for the Industrial Hygienist
Statistical Tools for the Comprehensive Practice of Industrial Hygiene and Environmental Health Sciences
Occupational Health and Safety
Essentials of Industrial Hygiene

Hazards of the Job

Industrial Hygiene Management

Despite many advances, 20 American workers die each day as a result of occupational injuries. And occupational safety and health (OSH) is becoming even more complex as workers move away from the long-term, fixed-site, employer relationship. This book looks at worker safety in the changing workplace and the challenge of ensuring a supply of top-notch OSH professionals. Recommendations are addressed to federal and state agencies, OSH organizations, educational institutions, employers, unions, and other stakeholders. The committee reviews trends in workforce demographics, the nature of work in the information age, globalization of work, and the revolution in health care delivery-exploring the implications for OSH education and training in the decade ahead. The core professions of OSH (occupational safety, industrial hygiene, and occupational medicine and nursing) and key related roles (employee assistance professional, ergonomist, and occupational health psychologist) are profiled-how many people are in the field, where they work, and what they do. The book reviews in detail the education, training, and education grants available to OSH professionals from public and private sources.

Reports

Industrial Hygiene

This book is a non-encyclopedic introductory textbook of industrial hygiene. Based on years of teaching a single-semester course on the topic, it presents a broad survey of the field and

addresses the typical student. Introduction to Industrial Hygiene is divided into three sections. The first section focuses on chemical hazards, presenting the basics of toxicology, the problems of skin contact and inhalation, the detection and control of airborne contaminants, and the threat of fire or explosion. The first part also describes government regulations and the agencies that enforce them. The second part of the book discusses injury from physical causes, including sound, radiation, heat, and accidents. This part also contains an introduction to ergonomics. The third part describes a range of industries that are major sources of both employment and potential injury, and it applies the principles outlined in the first two parts. At the end of each chapter, the material covered is summarized in a Key Points section. References are provided both to background material and to sources that expand beyond the scope of the chapter. Problems sets have practical bases and lead students into the CFR to familiarize them with the contents and the manner of locating information in the CFR. Extensive appendices provide practical information and allow the text to continue being a valuable source of reference for the student.

Patty's Industrial Hygiene

Reviews and reinforces concepts and techniques typical of a first statistics course with additional techniques useful to the IH/EHS practitioner. Includes both parametric and non-parametric techniques described and illustrated in a worker health and environmental protection practice context Illustrated through numerous examples presented in the context of IH/EHS field practice and research, using the statistical analysis tools available in Excel® wherever possible Emphasizes the application of statistical tools to IH/EHS-type data in order to answer IH/EHS-relevant questions Includes an instructor's manual that follows in parallel with the textbook, including PowerPoints to help prepare lectures and answers in the text as for the Exercises section of each chapter.

Particle Size Analysis in Industrial Hygiene

This book provides environmental technology students with an enjoyable way to quickly master the basics of industrial hygiene. Like all the books in the critically acclaimed Preserving the Legacy series, it follows a rapid-learning modular format featuring learning objectives, summaries, chapter-end reviews, practice questions, and skill-building classroom activities. Throughout the text, sidebars highlight critical concepts, and more than 90 high-quality line-drawings, photographs, and diagrams help to clarify concepts covered. Author Debra Nims begins with a fascinating historical overview of the art and science of industrial hygiene, followed by a concise review of key concepts and terms from biology and toxicology. She then offers in-depth practical coverage of: * Identifying hazards or potential hazards * Sampling and workplace evaluations * Hazard control * Toxicology, occupational health, and occupational health standards * Airborne hazards * Dermatoses and contact hazards * Fire and explosion hazards * Occupational noise * Radiation * Temperature extremes * Repetitive use traumas With its comprehensive coverage and quick-reference format, Basic of Industrial Hygiene is also a handy refresher and working reference for practicing environmental technicians and managers.

Industrial Hygiene Control of Airborne Chemical Hazards

Presenting the only textbook available today that covers all of the critical elements of industrial hygiene ó conceptual information, computational coverage, case studies, and sample

problems and exercises ó in one volume. Organized around the basic rubrics of industrial hygiene, this book helps students to think like industrial hygienists while offering the latest techniques for practicing professionals. Applications and Computational Elements of Industrial Hygiene is the most complete reference available on IH, and is also an ideal study aid for exam preparation. This is the first and only textbook that includes all critical computations for each concept covered. Each chapter discusses a different hazard and how to recognize, evaluate, and control it. The advantage of this approach is clear; technical issues, instrumental techniques, engineering control procedures ó relevant issues from A to Z ó are discussed for each hazard. Chapters conclude with case studies that offer critical insight into the practical aspects of the field. The book also covers emerging issues that will affect industrial hygienists in the future. The book includes real-life situations and experiences to demonstrate practical applications of concepts presented in the text. For students, Applications and Computational Elements of Industrial Hygiene offers critical material formerly scattered across multiple sources. For seasoned industrial hygienists, this is an essential problem-solving tool and state-of-the-art reference that consolidates and updates previously scattered information.

Air Sampling and Industrial Hygiene Engineering

Do you need guidelines for choosing a substitute organic solvent that is safer to use? Do you need an effective, cheap but perhaps temporary way to reduce exposures before you can convince your employer to spend money on a long-term or more reliable solution? Do you need information about local exhaust ventilation or personal protective equipment like respirators and gloves? Industrial Hygiene Control of Airborne Chemical Hazards provides the answers to these questions and more. Science-based and quantitative, the book introduces methods for controlling exposures in diverse settings, focusing squarely on airborne chemical hazards. It bridges the gap between existing knowledge of physical principles and their modern application with a wealth of recommendations, techniques, and tools accumulated by generations of IH practitioners to control chemical hazards. Provides a unique, comprehensive tool for facing the challenges of controlling chemical hazards in the workplace. Although William Pependorf has written the book at a fundamental level, he assumes the reader has some experience in science and math, as well as in manufacturing or other work settings with chemical hazards, but is inexperienced in the selection, design, implementation, or management of chemical exposure control systems. Where the book is quantitative, of course there are lots of formulae, but in general the author avoids vague notation and long derivations.

Patty's Industrial Hygiene and Toxicology

Close calls, narrow escapes, or near hits. History has shown repeatedly that these "near-miss" incidents often precede loss producing events, but are largely ignored or go unreported because nothing (no injury, damage or loss) happened. Thus, many opportunities to prevent the accidents that the organization has not yet had are lost. Recognizing and

The Basics of Occupational Safety

Handbook of Environmental Engineering

Particle Size Analysis in Industrial Hygiene discusses technical information on particle properties, kinetic behavior, sampling instruments, and interpretation. This book is composed

of seven chapters and is prepared by the American Industrial Hygiene Association for the Division of Technical Information, United States Atomic Energy Commission. This monograph is a part of the continuing effort of both organizations to extend the field of technical knowledge and safeguard the health and well-being of persons exposed to toxic or deleterious material. After briefly discussing the fundamental physics and chemistry of aerosol systems, the book goes on describing the analytical methods and instruments for particle size analysis. Such methods include direct and indirect sampling methods as well as automatic counting and sizing instruments. Specific methods considered include sieve analysis, optical and electron microscopy, and scanning electron microscopy. A chapter on particle size interpretation and representation with the use of applied mathematical statistics concepts is also provided. This book also covers a general discussion on typical applications of particle size analysis to industrial hygiene, radiation protection, air pollution control, industrial toxicology, and related areas. This book is an invaluable source for industrial hygienists and to those working in the many disciplines dealing with particle behavior.

Safety Management

Occupational Safety and Health

Applicable worldwide, this valuable guide will enable you to develop, implement, and maintain the effective occupational health programs for your company needs. Authored by four experts responsible for environment, health, and safety at different General Electric businesses, it can help you avoid costly business as well as personal liabilities resulting from occupational health problems. This book describes the hazard recognition and control procedures essential to employee preventive health programs. Details the auditing and measurements process, and outlines the procedures necessary to monitor and ensure total effectiveness of your program, both immediate and long-term. A prime feature is the 1989-1990 TLVs (Threshold Limit Values) and BEIs (Biological Exposure Indices) published with permission of the American Conference of Governmental Industrial Hygienists.

Industrial Hygiene Evaluation Methods

Hazards of the Job explores the roots of modern environmentalism in the early-twentieth-century United States. It was in the workplace of this era, argues Christopher Sellers, that our contemporary understanding of environmental health dangers first took shape. At the crossroads where medicine and science met business, labor, and the state, industrial hygiene became a crucible for molding midcentury notions of corporate interest and professional disinterest as well as environmental concepts of the 'normal' and the 'natural.' The evolution of industrial hygiene illuminates how powerfully battles over knowledge and objectivity could reverberate in American society: new ways of establishing cause and effect begat new predicaments in medicine, law, economics, politics, and ethics, even as they enhanced the potential for environmental control. From the 1910s through the 1930s, as Sellers shows, industrial hygiene investigators fashioned a professional culture that gained the confidence of corporations, unions, and a broader public. As the hygienists moved beyond the workplace, this microenvironment prefigured their understanding of the environment at large. Transforming themselves into linchpins of science-based production and modern consumerism, they also laid the groundwork for many controversies to come.

Fundamentals of Occupational Safety and Health

Industrial Hygiene Control of Airborne Chemical Hazards, Second Edition

Industrial hygienists are being called on to provide expertise in more and more different fields. It is often difficult to keep up with the latest technologies in all these fields. This quick reference includes terms found in journals, books, manufacturers' literature, and other sources used daily by industrial hygienists and others. It is filled with nearly 5,000 terms in industrial hygiene, safety, and occupational medicine, plus relevant terms and abbreviations from acoustics, physics, chemistry, and biology. It contains vital information pertaining to bacteriology, environmental health, epidemiology, illumination, mathematics, medicine, microscopy, mineralogy, and other fields. Designed in an easy-to-access format, this handy sourcebook also includes terms and abbreviations used by government to enforce regulations in occupational health and safety. All information is presented in simple, non-technical language for easy understanding. In the health and safety field the disciplines of environmental health, industrial hygiene, occupational health, and safety are managed, supervised, and addressed by single groups instead of separately, as was previously done. As a result the health/safety professionals in industry today must be generalists instead of specialists. This book has been expanded in recognition of the changes in the field of Industrial hygiene. What's new in the new edition: Contains 50% more terms, definitions and abbreviations Increases coverage on each discipline Includes new entries from other disciplines such as epidemiology, microbiology, indoor air quality environmental health, and sanitation Features

Occupational Health and Safety Management

Patty's Industrial Hygiene and Toxicology Volume 3A, 2nd Edition: Theory and Rationale of Industrial Hygiene Practice: The Work Environment Edited by Lewis J. Cralley & Lester V. Cralley This addition to Patty's classic reference series discusses the maintenance of standards to assure a safe and healthful working environment. Twenty-one leading authorities cover a broad range of topics, including: rationale; health promotion in the workplace; occupational health nursing; detecting disease produced by occupational exposure; health surveillance programs in industry; and more. 1985 0 471-86137-5 822 pp. Patty's Industrial Hygiene and Toxicology Volume 3B, 2nd Edition: Theory and Rationale of Industrial Hygiene Practice: Biological Responses Edited by Lewis J. Cralley & Lester V. Cralley Volume 3B discusses the biological responses of the body to the various chemical and environmental hazards and stresses in the industrial workplace. Twenty-one leading authorities cover a broad range of topics, including: rationale; role of animal toxicology and pharmacokinetic data in the safety evaluation of chemicals; and more. 1985 0 471-82333-3 753 pp. Industrial Hygiene Aspects of Plant Operations Volume 1: Process Flows Editors: Lester V. Cralley & Lewis J. Cralley This reference is the first of a three-volume work that constitutes the most comprehensive treatise available on the recognition, measurement, and control of potential hazards associated with plant operations. Volume 1 fills an especially important and urgent need with its flow-sheet style of presentation designed to help readers graphically compare their own company processes with those of other companies. 1986 0 471-62493-4 630 pp. Industrial Hygiene Aspects of Plant Operations Volume 2: Unit Operations and Product Fabrication Editors: Lester V. Cralley & Lewis J. Cralley In the first section, the contributors discuss unit operations as distinct entities along an industry-wide concept. In the second section, they cover the operations and procedures for assembling parts and materials into final products. Each step in the unit

operation and product fabrication flow includes a discussion of specific health hazards with suggestions for their monitoring and control. 1986 0 471-62492-6 537 pp. Industrial Hygiene Aspects of Plant Operations Volume 3: Engineering Considerations in Equipment Selection, Layout, and Building Design Editors: Lester V. Cralley & Lewis J. Cralley Stressing cost-effective design and sound engineering practice throughout, every chapter of this volume shows professionals how to establish practical, long-term hazard control programs that will continue to meet high standards of industrial hygiene and constantly changing government regulations. 1986 0 471-62491-8 785pp.

Basics of Industrial Hygiene

Today's concise, up-to-date guide to basic safety and health in the workplace. Basics of Occupational Safety, Second Edition is today's most complete, concise, and up-to-date basic guide to the most critical aspects of occupational safety and health. Designed to be a highly-effective teaching and learning tool for both classroom and on-line settings, it contains helpful pedagogy supported by comprehensive web content and resources. It concisely addresses all applicable standards from OSHA, NIOSH, and other US federal and state government regulatory agencies, and covers a wide range of new and emerging trends. Up-to-the-minute coverage includes: emerging roles of safety professionals, the safety professional's role in product recalls, maintenance requirements of NFPA 70E-2009 for electric shock, hot work, nanoscale materials in industrial hygiene, global harmonization of OSHA's Hazard Communication Standard, MRSA in the workplace, and establishing a safety-first corporate culture. Teaching and Learning Experience This concise book will prepare students for occupational and safety health responsibilities in today's complex environments. Concise, focused, basic coverage of the field's latest issues and trends: Thoroughly prepares students for current and future realities in the field of occupational safety and health Supported with exceptional pedagogical features: Includes well-crafted chapter summaries, key terms and concepts, review questions, and many boxed features Combines theory and principles in realistic settings: Focuses on the new challenges of occupational safety and health in global workplace environments, and the changing roles of safety/health professionals

Hemeon's Plant & Process Ventilation

This timely reference presents guidelines for establishing industrial hygiene programs. Organizations with established industrial hygiene programs, as well as those without, find this comprehensive reference a must when evaluating existing procedures and developing grass roots programs. The author presents a 50-element set of performance criteria for evaluating industrial hygiene programs. Information for these 50 elements is based on established industry practice, consensus standards, technical literature, trade association publications, and evolutionary procedures that are implemented based on their effectiveness in protecting the health of employees. This reference includes an objective statement, general background information, a considerations section addressing exposure/control issues, and a checklist for each element.

Some Pioneers of Industrial Hygiene

Professionals and students in the field of industrial hygiene need a concise guide that thoroughly covers the practical methods of evaluating health threats in the workplace. Bisesi and Kohn's Industrial Hygiene Evaluation Methods, Second Edition introduces basic methods

for evaluating work and some non-work environments in order to detect and measure physical, chemical and biological agents, as well as hazardous ergonomic factors. The book is divided into relatively short units that provide concise overviews and descriptions of basic concepts. Each unit is followed by practical technical exercises. These exercises foster the understanding of basic industrial hygiene principles and practices for collection, detection, identification, calculation, and interpretation of qualitative and quantitative data. Exercises can be conducted in a setting in which agents and other factors are detectable and measurable. Alternatively, the simulated evaluation exercises that are included can be conducted in a classroom or laboratory. This book is an introductory reference for environmental and occupational health and safety students and practitioners. It is an indispensable tool that illustrates methods fundamental to industrial hygiene practice, and is just as valuable in the professional's office as it is in the classroom.

Encyclopedia of Instrumentation for Industrial Hygiene

Industrial hygienists and ventilation engineers know the name well: W.C.L. Hemeon. Since 1955, those professionals have frequently looked to Hemeon's Plant & Process Ventilation for essential information on industrial ventilation. Hemeon's longtime influence and inspiration has now prompted D. Jeff Burton-a prolific author on industrial ventilation himself-to produce a Fourth Edition of "the classic industrial ventilation text." While retaining Hemeon's distinctive writing style, conveying practical information in vivid phrasing, Burton has added extensive new information to recognize today's technology and techniques. Essential fundamentals of ventilation covered in the book include an explanation about the dynamic properties of airborne contaminants, and the principles of dispersion mechanism and local exhaust. Advanced applications are also examined in detail, particularly system design, dust control, and troubleshooting. Along with providing essential background on the two primary types of workplace ventilation-general and local exhaust-Hemeon's Plant & Process Ventilation also aims for mutual understanding between the health-oriented priorities of industrial hygienists, and the practical applications for maximum efficiency considered by ventilation engineers. Have a well-thumbed, dog-eared copy of Hemeon's Plant & Process Ventilation? Now is the best time to retire it in favor of this revised-and respectful-edition. Those who are new to Hemeon's approach will discover what other professionals have known more than 40 years: Hemeon offers some of the most effective ways to control environmental contaminants through proper ventilation techniques.

The Legal Aspects of Industrial Hygiene and Safety

Basic Concepts of Industrial Hygiene covers the latest and most important topics in industrial hygiene today. The textbook begins with a look at the history and basis for industrial hygiene, which provides students with a foundation for understanding later developments. The book contains an in-depth discussion of new OSHA regulations, such as HAZWOPER and Process Safety, which deal with high hazard situations. It also features a chapter on biological hazards of current concern in health care, including tuberculosis, AIDS, and hepatitis B.

Occupational Hygiene Management Guide

Safe Work in the 21st Century

Occupational Safety and Health Abstracts

Professionals and students in the field of industrial hygiene need a concise guide that thoroughly covers the practical methods of evaluating health threats in the workplace. Bisesi and Kohn's *Industrial Hygiene Evaluation Methods, Second Edition* introduces basic methods for evaluating work and some non-work environments in order to detect and measure physical, chemical and biological agents, as well as hazardous ergonomic factors. The book is divided into relatively short units that provide concise overviews and descriptions of basic concepts. Each unit is followed by practical technical exercises. These exercises foster the understanding of basic industrial hygiene principles and practices for collection, detection, identification, calculation, and interpretation of qualitative and quantitative data. Exercises can be conducted in a setting in which agents and other factors are detectable and measurable. Alternatively, the simulated evaluation exercises that are included can be conducted in a classroom or laboratory. This book is an introductory reference for environmental and occupational health and safety students and practitioners. It is an indispensable tool that illustrates methods fundamental to industrial hygiene practice, and is just as valuable in the professional's office as it is in the classroom.

Fundamentals of Industrial Hygiene

Workplace Health Protection

Reflecting changes in the current health and safety landscape, *Occupational Health and Safety Management: A Practical Approach, Third Edition* includes examples and tools to facilitate development and implementation of a safety and health management approach. This how-to book is not just an information providing text. It shows you how to write a program and identify hazards as well as involve workers and attain their cooperation. It emphasizes the need for better and more effective communication regarding safety and health. See *What's New in the Third Edition: Chapters on workers' compensation, terrorism, and Lean safety/sustainability* Additional coverage of flammable liquids and ventilation, accident reporting, and accident investigation New compliance requirements as well as expanded accident investigation, environmental, and risk analysis guidelines PowerPoint presentation slides for each chapter A complete and practical guide for the development and management of occupational safety and health programs in any industry setting, the book supplies a management blueprint that can be used for occupational safety and health in any organization, from the smallest to the largest, beginning to develop or wanting to improve its safety and health approach. It includes comprehensive guidelines for development of occupational health and safety programs to a variety of industries and is especially useful for start-up companies. The author takes a total management approach to the development of written programs, the identification of hazards, the mitigation of hazards by the use of common safety and health tools, the development of a safe workforce through communications, motivational techniques, involvement, and training. He addresses the tracking and acceptable risk from both safety and health hazards. He also discusses how to work with and within the OSHA compliance approach as well as how to deal with the OSHA regulations, workers' compensation, terrorism, and Lean safety. As you understand and apply the guidelines in each chapter, you can put your company on the way toward building a successful and effective safety and health effort for its employers and employees.

Patty's Industrial Hygiene and Toxicology: Toxicology

Focuses on the applications of toxicology principles to the practice of industrial hygiene, using case studies as examples.

Industrial Hygiene Evaluation Methods

In his latest book, the Handbook of Environmental Engineering, esteemed author Frank Spellman provides a practical view of pollution and its impact on the natural environment. Driven by the hope of a sustainable future, he stresses the importance of environmental law and resource sustainability, and offers a wealth of information based on real-world

Public Health Engineering Abstracts

Many of the earliest books, particularly those dating back to the 1900s and before, are now extremely scarce and increasingly expensive. We are republishing these classic works in affordable, high quality, modern editions, using the original text and artwork.

Fundamentals of Industrial Hygiene

This book explores various legal issues that are often encountered by Industrial Hygiene and Safety managers during their careers. A description is presented of the various legal concepts and processes that often arise in the IH/S practice, including tort, contract, and administrative law. The goal is to provide IH/S managers with sufficient knowledge to be able to incorporate legal risk analysis into everyday decision-making and policy development. This book will explore the legal issues that arise in IH/S practice and will be helpful to new IH/S managers as they progress in their careers.

Introduction to Industrial Hygiene

Proceedings

The fourth edition of this popular handbook provides a thorough and up-to-date overview of the occupational safety and health field and the issues safety professionals face today. An excellent introductory reference for both students and professionals, this comprehensive book provides practical information regarding technology, management, and regulatory compliance issues, covering crucial topics like organizing, staffing, directing, and evaluating the system. This book also covers the required written programs for general industry, identifying when they are needed and which major points must be addressed for each. All major topics are addressed in this comprehensive volume, from safety-related laws and regulations to hazardous materials and workplace violence. Fundamentals of Occupational Safety and Health includes a chapter covering the issues and concerns raised by the threat of terrorism. This Fourth Edition also examines OSHA's recordkeeping standard so readers will know which industries are covered and what they must do to comply. It also covers the required written programs for general industry, identifying when they are needed and which major points must be addressed for each. A handy directory of resources including safety and health associations, First Responder organizations, as well as state and federal agencies, puts a wealth of information at the readers' fingertips.

Basic Concepts of Industrial Hygiene

We know certain chemicals cause problems in the workplace. The issues now are: Where do they occur in the workplace? How can we best evaluate them? What are the procedures for dealing with them safely? Many books simply define the problem and tell you that you need a program. *Air Sampling and Industrial Hygiene* gives you a guide to air sampling protocols from start to finish. The book presents sampling technology updated with today's tools - such as microcircuitry and remote sensing. The authors emphasize an interdisciplinary approach to understanding how air monitoring can adequately report current environmental conditions associated with outdoor media, indoor remediation efforts, proximal equipment, interior line monitoring, and the interrelationship of ventilation parameters. In addition to providing the how-tos of sampling, this guide covers the basics of chemical risk assessment, biological assessment, engineering evaluation of mechanical system design criteria, and chemical or process engineering hazard assessments. It presents the information using text, text outlines, graphics, and pictures - including cross sections of instrumentation and side bars to elaborate on complex concepts. Faulty readings caused by poor sampling techniques can be very costly. This book provides the how-tos for making design engineering and on-site decisions as to instrumentation selection and scheduled usage. *Air Sampling and Industrial Hygiene Engineering* will allow you to complete the sampling process systematically and correctly from initial suspicions to the use of obtained results.

Exploring the Dangerous Trades - The Autobiography of Alice Hamilton, M.D.

The standard reference in occupational health and safety for over 50 years, the new *Patty's* presents for the first time a separation of industrial hygiene and toxicology topics, offering complete reorganization of the material into four volumes of clearly defined topic areas.

Applications and Computational Elements of Industrial Hygiene.

Toxicology Principles for the Industrial Hygienist

Statistical Tools for the Comprehensive Practice of Industrial Hygiene and Environmental Health Sciences

Are you a practicing occupational hygienist wondering how to find a substitute organic solvent that is safer to use than the hazardous one your company is using? Chapter 6 is your resource. Are you a new hygienist looking for an alternative technology as a nonventilation substitute for an existing hazard? Chapter 8 is your resource. Are you looking for an overview of ventilation? Chapters 10 and 11 are your resource? Are you an industrial hygiene student wanting to learn about local exhaust ventilation? Chapters 13 through 16 are your resource. Are you needing to learn about personal protective equipment and respirators? Chapters 21 and 22 are your resources. This new edition brings all of these topics and more right up-to-date with new material in each chapter, including new governmental regulations. While many of the controls of airborne hazards have their origins in engineering, this author has been diligent in explaining concepts, writing equations in understandable terms, and covering the topics of non-ventilation controls, both local exhaust and general ventilation, and receiver controls at the level needed by most IHs without getting too advanced. Taken as a whole, this book provides

a unique, comprehensive tool to learn the challenging yet rewarding role that industrial hygiene can play in controlling airborne chemical hazards at work. Most chapters contain a set of practice problems with the solutions available to instructors. Features Written for the novice industrial hygienist but useful to prepare for ABIH certification Explains engineering concepts but requires no prior engineering background Includes specific learning goals that differentiate the depth of learning appropriate to each topic within the fuller information and explanations provided for each chapter Contains updated governmental regulations and abundant references Presents a consistent teaching philosophy and approach throughout the book Deals with both ventilation and non-ventilation controls

Occupational Health and Safety

Essentials of Industrial Hygiene

Most occupational safety and health books explain how to apply concepts, principles, elements, tools of prevention and develop interventions, and initiatives to mitigate occupational injuries, illnesses and deaths. This is not a how-to book. It is a book that addresses the philosophical basis for all of the varied components and elements needed to develop and manage a safety and health program. It is a book designed to answer the questions often posed as to why should we do it this way. It is the "Why" book and the intent is to provide a blueprint and a helpmate for the philosophical basis for occupational safety and health and the justification as an integral component of doing business.

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